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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,323	07/24/2003	Yu Chen	38482-8011US	2288
25096 75	590 09/23/2004		EXAMINER	
PERKINS COIE LLP PATENT-SEA			KANG, JULIANA K	
P.O. BOX 1247	7		ART UNIT	PAPER NUMBER
SEATTLE, W	A 98111-1247		2874	

DATE MAILED: 09/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

						
	Application No.	Applicant(s)	Applicant(s)			
Office Action Summan	10/627,323	CHEN, YU				
Office Action Summary	Examiner	Art Unit	6.1			
·	Juliana K. Kang	2874	180			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	e correspondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, may a reply be eply within the statutory minimum of thirty (30) od will apply and will expire SIX (6) MONTHS frute, cause the application to become ABANDO	e timely filed days will be considered timel om the mailing date of this c NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application	on.					
4a) Of the above claim(s) is/are withdo						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	l/or election requirement.					
Application Papers						
9) The specification is objected to by the Exami	ner.					
10) The drawing(s) filed on is/are: a) a		e Examiner.				
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is	objected to. See 37 Cl	FR 1.121(d).			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached Offi	ce Action or form P1	TO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	gn priority under 35 U.S.C. § 119	(a)-(d) or (f).				
1.☐ Certified copies of the priority docume	nts have been received.					
2. Certified copies of the priority docume		ation No				
3. Copies of the certified copies of the pr	iority documents have been rece	ived in this National	Stage			
application from the International Bure	eau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a li	st of the certified copies not recei	ived.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summa					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 4/19/04. 	Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date al Patent Application (PTC	D-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grubsky (U.S. Patent 6,360,038 B1, submitted by applicant).

Grubsky discloses a wavelength-selective optical device for coupling light using a grating that can be tunable in wavelength by varying the periodicity of the grating (see column 3 lines 6-8, column 2 line 25). Grubsky discloses that the grating can be apodized grating (see column 2 lines 61-62). However, Grubsky does not explicitly teach that the Bragg grating has an adjusted grating period that has been increased from a nominal grating period to compensate for a Bragg wavelength shift. It is known in the art that any outside strain or temperature on the grating causes Bragg wavelength to shift left or right causing unintentional coupling loss. Since Grubsky's grating is tunable it would have been obvious to one having ordinary skill in the art to recognize tuning the Bragg grating (by applying a temperature or strain gradient) to compensate for a Bragg wavelength shift in Grubsky to provide the device with improved coupling efficiency.

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Regarding claims 4 and 10, since Grubsky's grating is tunable by changing periodicity of the grating, it appears that Grubsky's device can perform the claimed limitation. It is also noted that applicant didn't provide the critically of having such periodicity.

Conclusion

- 3. The prior art documents submitted by applicant have been considered and made of record (note the attached copy of form PTO-1449).
- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sakata (U.S. Patent 6,072,925) teaches a tunable optical coupler with a grating.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juliana K. Kang whose telephone number is (571) 272-2348. The examiner can normally be reached on Mon. & Fri. 10:00-6:00 and Tue. & Thur. 10:00-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rod Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Juliana Kang

September 21, 2004